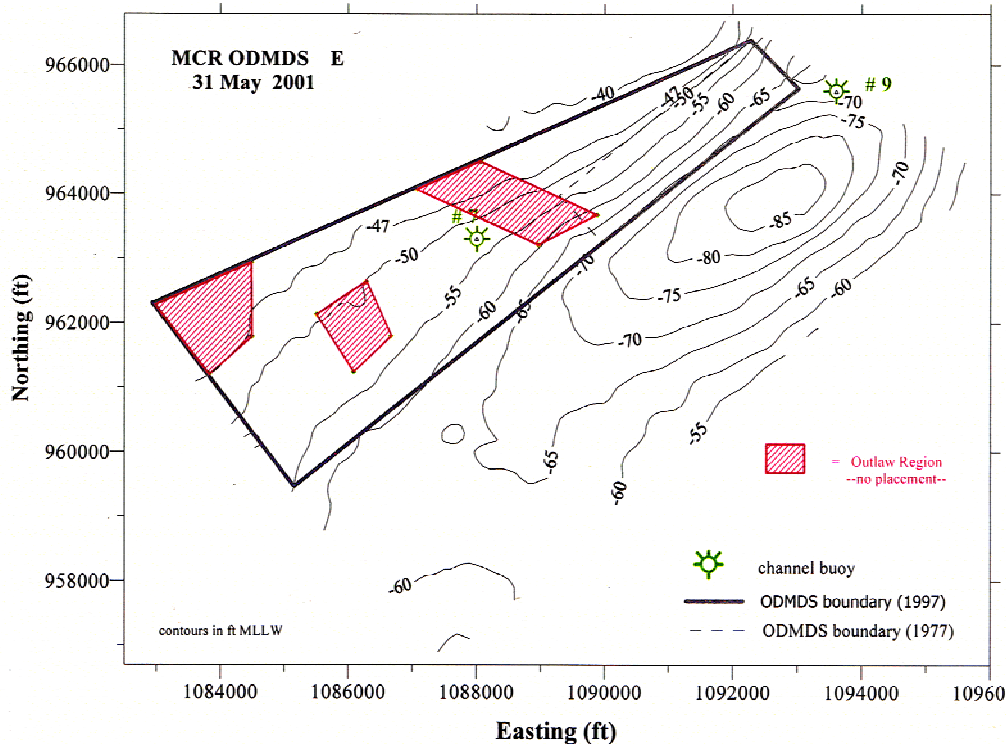


masters understood and believed they were attempting to achieve these objectives. A series of vessel plots for June and July 2001 show the intense disposal at E1. Similar to E2, E1 also had areas identified for no disposal. The northern portion of the site was eliminated as well as the far eastern portion. In fact, in reviewing track lines for 2001, the track lines indicate that disposal was heavily skewed toward the channel side of the landward end of Site E (Figure 8). The figure shows typical track lines for the dredge *Essayons* taken during June 2001. By June 30, 2001 it was obvious from the difference plots that a significant mounding was occurring above the 5 foot limit (Figure 9). However, the June 30 survey was not reviewed immediately, and the *Essayons* continued to follow a similar path for much of July. The August 13, 2001 difference plot indicated a significant elliptical mound in E1. Neither the northern nor eastern portion of E1 was optimally used during the summer of 2001.

**Figure 5. Site E with outlaw areas for contract dredge.**



A review of placement at E1 in 2000 indicated a broader use and coverage of the site. The coverage of the site was further west and north in 2000. In both years, almost no use was made of the eastern portion of Site E1 nor the southeastern section.

It was not clear from discussions with the District management as to why E1 and E2 placement coverage was significantly different. E1 had a cell grid developed in 1999 and used in 2000 but not in 2001. It would appear that a better dispersion system could be developed for the *Essayons*. Rather than the cells, we would recommend a series of lanes the vessel could use to optimize placement. Also, the vessel masters clearly did not feel comfortable using the northern and eastern portions of the site because of sea

conditions prevalent there. If portions of the site could not be used due to sea conditions or for other reasons, it is suggested that the calculations of capacity at the site reflect those conditions. The Review Team also recommends that, as long as multiple dredges operate concurrently at Site E, they should be managed to similarly specific standards regarding placement location, and they should receive a similar degree of District oversight.